



# Hi-Flow™ Control Valves – Valve Bodies and Actuators

### DIMENSION DATA

PIPE SIZE	STROKE	AREA**	A (BRONZE)	A (316SS)	B	C	D	E
IN. (MM)	IN. (MM)	IN. <sup>2</sup> (CM <sup>2</sup> )	IN. (MM)	IN. (MM)	IN. (MM)	IN. (MM)	IN. (MM)	IN. (MM)
1/2"	3/16"	0.341	3 3/8"	4 7/8"	1 1/8"	2 1/8"	4 1/2"	-
	(7.9)	(2.20)	(95.3)	(106.4)	(34.9)	(65.1)	(109.5)	
3/4"	1/4"	0.556	3 1/2"	4 1/2"	1 1/2"	2 3/8"	4 3/8"	-
	(11.1)	(3.59)	(98.4)	(108.0)	(34.9)	(65.1)	(109.5)	
1"	1/2"	0.886	4 1/4"	5 1/4"	1 3/4"	3"	5 1/8"	-
	(12.7)	(5.72)	(120.7)	(133.4)	(41.3)	(76.2)	(100.0)	
1 1/4"	5/8"	1.413	5"	5 7/8"	2 1/8"	3 3/8"	6 1/8"	-
	(14.3)	(9.12)	(127.0)	(146.0)	(46.0)	(79.4)	(92.1)	
1 1/2"	3/4"	1.920	5 1/2"	6 1/2"	2 3/8"	3 7/8"	7 1/8"	-
	(15.9)	(12.39)	(139.7)	(155.6)	(50.8)	(88.9)	(100.0)	
2"	1"	3.142	6 1/2"	6 3/4"	2 7/8"	3 7/8"	7 3/4"	-
	(19.1)	(20.27)	(165.1)	(174.6)	(60.3)	(95.2)	(79.4)	
2 1/2"†	1 1/4"	4.909	10 1/2"	10 1/2"	2.58	4.52	7	(4) Ø3/4 (19.05) HOLES ON A 5 1/2 (139.70) B.C.
	(22.23)	(12.47)	(276.23)	(276.23)	(65.53)	(114.81)	(177.80)	
2 1/2"*	1 1/4"	4.909	11 1/2"	11 1/2"	2.58	4.52	7 1/2"	(8) Ø7/8 (22.23) HOLES ON A 5 1/2 (149.23) B.C.
	(22.23)	(12.47)	(292.10)	(292.10)	(65.53)	(114.81)	(190.50)	
3"†	1"	7.069	11 1/2"	11 1/2"	2.70	4.64	7 1/2"	(4) Ø3/4 (19.05) HOLES ON A 6 (152.40) B.C.
	(25.40)	(17.96)	(298.45)	(298.45)	(68.58)	(117.86)	(190.50)	
3"*	1"	7.069	12 1/2"	12 1/2"	2.70	4.64	8"	(8) Ø7/8 (22.23) HOLES ON A 6 1/2 (168.28) B.C.
	(25.40)	(17.96)	(317.50)	(317.50)	(68.58)	(117.86)	(209.55)	
4"†	1 1/2"	12.566	13 1/2"	13 1/2"	2.95	4.89	9"	(8) Ø3/4 (19.05) HOLES ON A 7 1/2 (190.50) B.C.
	(28.58)	(31.92)	(352.43)	(352.43)	(74.93)	(124.21)	(228.60)	
4"*	1 1/2"	12.566	14"	14"	2.95	4.89	10"	(8) Ø7/8 (22.23) HOLES ON A 7 1/2 (200.03) B.C.
	(28.58)	(31.92)	(368.30)	(368.30)	(74.93)	(124.21)	(254.00)	

†125/250# flange rating.  
\*250/300# flange rating.  
\*\*Note: Unbalanced area of plug (Ap).

**Air-to-Lower**

**Air-to-Raise**

\*Effective diaphragm area (A<sub>e</sub>) decreases linearly with stroke: 20 in.<sup>2</sup> (129 cm<sup>2</sup>) — 2 in.<sup>2</sup>/in. (.5 cm<sup>2</sup>/mm); 45 in.<sup>2</sup> (290 cm<sup>2</sup>) — 3 in.<sup>2</sup>/in. (.76 cm<sup>2</sup>/mm); 80 in.<sup>2</sup> (516 cm<sup>2</sup>) — 3.5 in.<sup>2</sup>/in. (.89 cm<sup>2</sup>/mm).

TERM* NO.	PART NO. †	ACTION	T <sup>***</sup> IN. (MM)	A <sub>e</sub> ** IN. <sup>2</sup> (CM <sup>2</sup> )	A IN. (MM)	B IN. (MM)	C IN. (MM)	D IN. (MM)	E IN. (MM)	F IN. (MM)	G IN. (MM)	P <sup>---</sup> PSI (KG/CM <sup>2</sup> )
-220	15S620	AIR-TO-LOWER	1 (25.4)	20 (129)	1 1/2 (38.1)	3 (76.2)	1 1/8 (17.5)	3 3/8 (92.1)	7 1/2 (184.2)	7 1/2 (196.9)	15 1/2 (403.2)	100 (7.0)
-221	15S621	AIR-TO-LOWER	1 (25.4)	45 (290)	1 1/2 (38.1)	3 (76.2)	1 1/8 (17.5)	3 3/8 (92.1)	7 1/2 (184.2)	10 1/2 (269.9)	16 1/8 (420.7)	50 (3.5)
-222	15S622	AIR-TO-LOWER	1 1/2 (38.1)	45 (290)	1 3/8 (49.2)	3 1/2 (95.3)	1 1/2 (22.2)	3 7/8 (88.9)	8 1/2 (212.7)	10 1/2 (269.9)	18 1/8 (473.1)	100 (7.0)
-223	15S623	AIR-TO-LOWER	1 1/2 (38.1)	80 (516)	1 3/8 (49.2)	3 1/2 (95.3)	1 1/2 (22.2)	3 7/8 (88.9)	8 1/2 (212.7)	13 3/8 (339.7)	20 (508.0)	50 (3.5)
-230	15S630	AIR-TO-RAISE	1 (25.4)	20 (129)	1 1/2 (38.1)	3 (76.2)	1 1/8 (17.5)	3 (76.2)	-	7 1/2 (196.9)	17 1/8 (436.6)	100 (7.0)
-231	15S631	AIR-TO-RAISE	1 (25.4)	45 (290)	1 1/2 (38.1)	3 (76.2)	1 1/8 (17.5)	3 (76.2)	-	10 1/2 (269.9)	17 1/8 (452.4)	50 (3.5)
-233	15S633	AIR-TO-RAISE	1 1/2 (38.1)	80 (516)	1 3/8 (49.2)	3 1/2 (95.3)	1 1/2 (22.2)	3 (76.2)	-	13 3/8 (339.7)	22 1/2 (565.9)	50 (3.5)

\*Add Termination No. suffix to base Valve Model No. for complete valve automation package.  
†Specify Part No. for Pneumatic Actuator assembly only.

Valves

W.E. Anderson Hi-Flow Control Valves are also available in sub-assemblies of just Hi-Flow valve body or Lin-E-Aire actuator. Valve bodies can be mounted onto electric actuators or other brand pneumatic actuators. Lin-E-Aire actuators can be used to

stroke other brand valves such as butterfly or sanitary globe valves where a 3 to 15 psi control signal is desired. Consult our Valves and Controls Catalog for more detailed information.